

SEQUENCE LISTING



(1) GENERAL INFORMATION

- (i) APPLICANT: Feldhaus, Andrew
- (ii) TITLE OF THE INVENTION: TRANSCRIPTIONALLY-ACTIVATED
AAV INVERTED TERMINAL REPEATS (ITRs) FOR USE WITH RECOMBINANT
AAV VECTORS
- (iii) NUMBER OF SEQUENCES: 21
- (iv) CORRESPONDENCE ADDRESS:
 - (A) ADDRESSEE: MORRISON & FOERSTER
 - (B) STREET: 755 PAGE MILL ROAD
 - (C) CITY: PALO ALTO
 - (D) STATE: CA
 - (E) COUNTRY: USA
 - (F) ZIP: 94304-1018
- (v) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: Diskette
 - (B) COMPUTER: IBM Compatible
 - (C) OPERATING SYSTEM: DOS
 - (D) SOFTWARE: FastSEQ for Windows Version 2.0
- (vi) CURRENT APPLICATION DATA:
 - (A) APPLICATION NUMBER: 09/909,363
 - (B) FILING DATE: 19-JUL-2001
 - (C) CLASSIFICATION:
- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: 09/171,759
 - (B) FILING DATE: 20-OCT-1998
- (viii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: PCT/US98/21937
 - (B) FILING DATE: 20-OCT-1998
- (ix) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: 08/955,400
 - (B) FILING DATE: 27-OCT-1997
- (x) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: 60/108,162
 - (B) FILING DATE: 21-OCT-1997
- (xi) ATTORNEY/AGENT INFORMATION:
 - (A) NAME: Polizzi, Caterhine M.
 - (B) REGISTRATION NUMBER: 40,130
 - (C) REFERENCE/DOCKET NUMBER: 226272003802
- (xii) TELECOMMUNICATION INFORMATION:
 - (A) TELEPHONE: 650-813-5600
 - (B) TELEFAX: 650-494-0792
 - (C) TELEX: 706141

(2) INFORMATION FOR SEQ ID NO:1:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 40 base pairs

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

TCGAGTATAT AAGCAGAGCT CGTTTAGTGA ACCGTCAGAG 40

(2) INFORMATION FOR SEQ ID NO:2:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 40 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

TCGACTCTGA CGGTTCACTA AACGAGCTCT GCTTATATAC 40

(2) INFORMATION FOR SEQ ID NO:3:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 50 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

TCGAGTTCTC CCTCTTCCCC TTTAATTCCA CCTTAAACA TCTGCAAAAC 50

(2) INFORMATION FOR SEQ ID NO:4:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 50 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

TCGAGTTTTG CAGATGTTTT AAGGTGGAAT TAAAGGGGAA GAGGGAGAAC 50

(2) INFORMATION FOR SEQ ID NO:5:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 60 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

TCGAGTGCAC GCTCACGCAG GTTGCTATAT AAGCAGAGCT CGTTTAGTGA ACCGTCAGAG 60

(2) INFORMATION FOR SEQ ID NO:6:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 60 base pairs
- (B) TYPE: nucleic acid

- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

TCGACTCTGA CGGTTCACTA AACGAGCTCT GCTTATATAG CAACCTGCGT GAGCGTGCAC 60

(2) INFORMATION FOR SEQ ID NO:7:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 67 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

TCGAGGCGCC GCTAGGGGTC TCTCTCGGT GCTATATAAG CAGAGCTCGT TTAGTGAACC 60
GTCAGAG 67

(2) INFORMATION FOR SEQ ID NO:8:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 67 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:

TCGACTCTGA CGGTTCACTA AACGAGCTCT GCTTATATAG CACCCGAGAG AGACCCCTAG 60
CGGCGCC 67

(2) INFORMATION FOR SEQ ID NO:9:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 82 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:

TCGAGCCGCT AGGGGTCTCT CTCGGGTGTG GGCCGGATCA GCTGACTCGC TGAGCCCCGC 60
CGCCGCGCTC GGGCTCCGTC AG 82

(2) INFORMATION FOR SEQ ID NO:10:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 82 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:

TCGACTGACG GAGCCCAGC GCGGCGGCGG GGCTCAGCGA GTCAGCTGAT CCGGCCCCACA 60
CCCAGAGAG ACCCCTAGCG GC 82

(2) INFORMATION FOR SEQ ID NO:11:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 82 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:

TCGAGAACGG TGACGTGCAC GCGTGGGCGG AGCCATCACG CAGGTTGCTA TATAAGCAGA	60
GCTCGTTTAG TGAACCGTCA GA	82

(2) INFORMATION FOR SEQ ID NO:12:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 83 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:

TCGACTCTGA CGGTTCACTA AACGAGCTCT GCTTATATAG CAACCTGCGT GATGGCTCCG	60
CCCACGCGTG CACGTCACCG TTC	83

(2) INFORMATION FOR SEQ ID NO:13:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 110 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:

TCGAGCTGGA GCCGGTGTCA GGTGCTCCG GTAACGGTGA CGTGACGCG TGGGCGGAGC	60
CATCACGCAG GTTGCTATAT AAGCAGAGCT CGTTTAGTGA ACCGTCAGAG	110

(2) INFORMATION FOR SEQ ID NO:14:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 110 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:

TCGACTCTGA CGGTTCACTA AACGAGCTCT GCTTATATAG CAACCTGAGT GATGGCTCCG	60
CCCACGCGTG CACGTCACCG TTACCGGAGC AACCTGACAC CGGCTCCAGC	110

(2) INFORMATION FOR SEQ ID NO:15:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 83 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:

TCGAGGCCAA TCAGCGTGCG CCGTTCCTTT TCTGGCTCGA GCGGCCCTA TATAAGCAGA	60
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GCTCGTTTAG TGAACCGTCA GAG

83

(2) INFORMATION FOR SEQ ID NO:16:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 83 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:16:

TCGACTCTGA CGGTTCACTA AACGAGCTCT GCTTATATAG GGGCCGCTCG AGCCAGAAAA 60
GGAACGGCGC ACGCTGATTG GCC 83

(2) INFORMATION FOR SEQ ID NO:17:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 88 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:

TCGAGCCCCA CCCCCTGCCC CACCCCTGC CCCACCCCT GCCCCACCC CTGTATATAA 60
GCAGAGCTCG TTAGTGAAC CGTCAGAG 88

(2) INFORMATION FOR SEQ ID NO:18:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 88 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:

TCGACTCTGA CGGTTCACTA AACGAGCTCT GCTTATATAC AGGGGGTGGG GCAGGGGGTG 60
GGGCAGGGGG TGGGGCAGGG GGTGGGGC 88

(2) INFORMATION FOR SEQ ID NO:19:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 10 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:19:

GCCGAGCGGG 10

(2) INFORMATION FOR SEQ ID NO:20:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 10 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:20:

CCGAAAGTTG

10

(2) INFORMATION FOR SEQ ID NO:21:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 10 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:21:

CCTTTTCTGG

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